

LMA Supreme™ quick step guide

Size selection

- ▶ Using clinical judgement and the guidelines in Table 1, verify the correct size selection
- ▶ After inserting, fixing the device in place, and inflating to the recommended pressure, there should be a minimum of 1.0 cm gap between the fixation tab and the patient's upper lip
- ▶ An approximate estimate of suitable sizing can be made by holding each device against the side of the patient's face

Table 1: LMA Supreme™: Product specification

Mask size	Product code	Patient size	Maximum cuff volume (air)*	Largest size OG tube
1	175010	Neonates/infants up to 5 kg	5 ml	6 Fr
1.5	175015	Infants 5-10 kg	8 ml	6 Fr
2	175020	Infants 10-20 kg	12 ml	10 Fr
2.5	175025	Children 20-30 kg	20 ml	10 Fr
3	175030	Children 30-50 kg	30 ml	14 Fr
4	175040	Adults 50-70 kg	45 ml	14 Fr
5	175050	Adults 70-100 kg	45 ml	14 Fr

*These are maximum volumes that should never be exceeded. It is recommended that the cuff be inflated to a maximum of 60cm H₂O intracuff pressure.

Deflation before insertion

Deflation

- ▶ A syringe of at least 50 ml should be used and held so that the inflation line is under slight tension; this facilitates smooth and complete deflation of the cuff as shown in Figure 1
- ▶ Compress the distal end of the device between the index finger and thumb while withdrawing air until a vacuum has been obtained
- ▶ While deflating, hold the device so that the distal end is curled slightly anteriorly as shown in Figure 1
- ▶ After deflation is complete, disconnect the syringe from the inflation line

Standard insertion

- ▶ Lubricate the posterior surface of the cuff and the airway tube
- ▶ Stand behind the patient's head
- ▶ Place the head in the neutral or slight 'sniffing' position
- ▶ Hold the LMA Supreme™ by the proximal end with the hollow side facing downwards and the distal end pointing towards you, Figure 3
- ▶ Press the distal tip against the inner aspect of the upper teeth or gums
- ▶ Slide inwards using a slightly diagonal approach (direct the tip away from the mid-line)
- ▶ Continue to slide inwards rotating the hand in a circular motion so that the device follows the curvature behind the tongue
- ▶ Resistance should be felt when the distal end of the device meets the upper oesophageal sphincter. The device is now fully inserted

Pre-use performance tests

The following inspections and tests must be conducted before use of the device:

- ▶ Examine the surface of the LMA Supreme™ and drain tube for damage, including cuts, tears, scratches or kinks
- ▶ Examine the interior of the airway tube and drain tube to ensure that they are free from blockages, kinking of the drain tube within the airway tube or loose particles
- ▶ Any particles present in the tubes should be removed. Do not use the airway if the blockage or particles cannot be removed
- ▶ Deflate the cuff completely. Once deflated, check the cuff for spontaneous inflation. Do not use the airway if the cuff spontaneously inflates

Warning: Do not use the device should it fail any one of the inspections or tests.

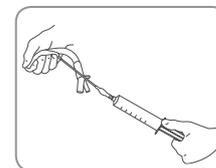


Fig 1: LMA Supreme™ deflation.

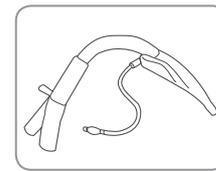


Fig 2: After achieving a wedge shaped cuff during deflation, disconnect the syringe from the inflation line.

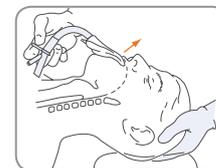


Fig 3: Press the tip of the mask against the hard palate.

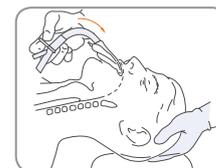


Fig 4: Press the cuff further into the mouth, maintaining pressure against the palate.

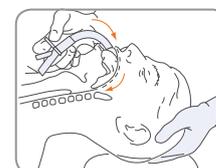


Fig 5: Swing the device inward with a circular motion, pressing against the contours of the hard and soft palates.



Fig 6: Advance the device into the hypopharynx until resistance is felt.

Fixation

- ▶ Use a piece of adhesive tape 30-40 cm long, holding it horizontally by both ends
- ▶ Press the tape across the fixation tab, so that the ends of the tape adhere to each of the patient's cheeks. Do not rotate the tape around the proximal end of the device
- ▶ If the fixation tab is more than 2.5 cm from upper lip, this suggests that the device might be too big
- ▶ for the patient. It may be advisable to use a smaller sized LMA Supreme™
- ▶ If the fixation tab is less than 1.0 cm from the upper lip, this suggests the device might be too small for the patient. It may be advisable to use a larger sized LMA Supreme™
- ▶ Do not use a Guedel airway as the device has an integral bite block

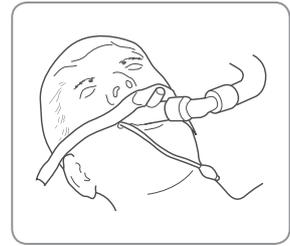


Fig 7: Fix the device in place using adhesive tape.

Inflation

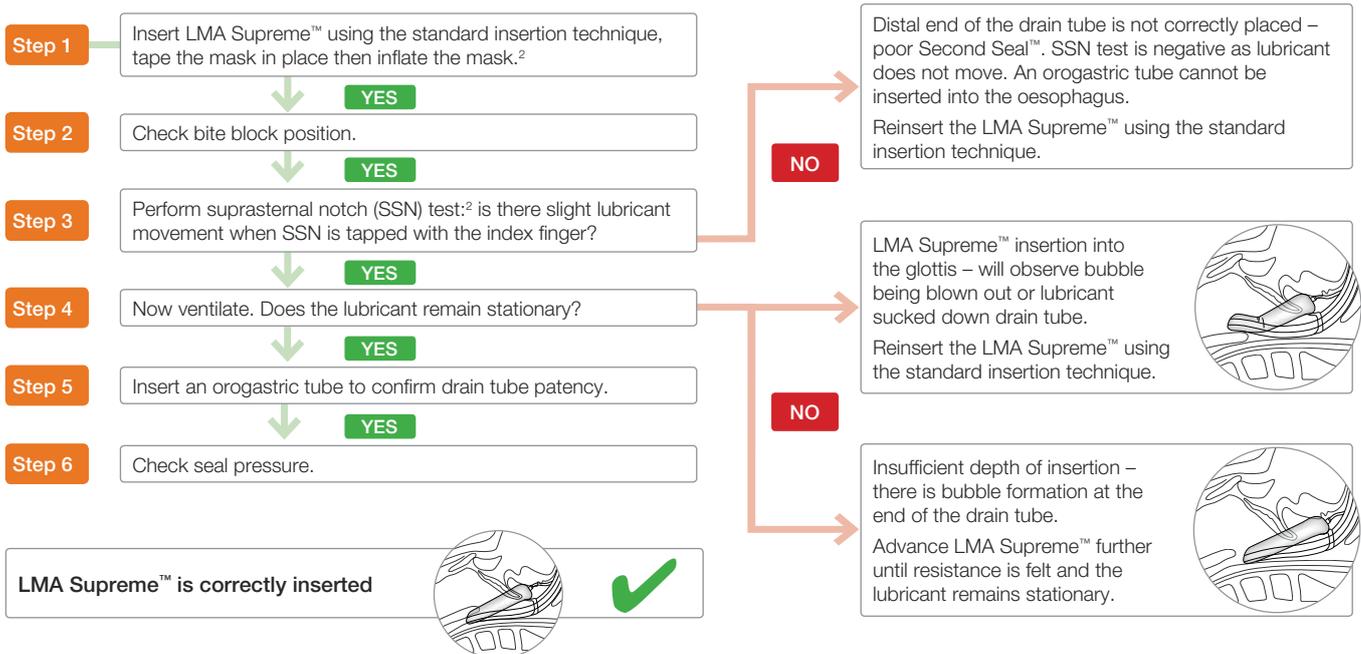
- ▶ Inflate the cuff with air until relevant intracuff pressure is reached. The recommended intracuff pressure should never exceed 60 cm H₂O

“Malposition results in a poor airway seal and an audible and immediately detectable leak of delivered gases through the drain tube, hence minimizing the risk of gastric insufflation.”

Sharma V. et al., 2010

Diagnostic tests to confirm placement

Diagnostic tests utilising the drain tube can immediately verify correct mask placement.¹ This will help to ensure a successful First Seal™ and Second Seal™.



1. Sharma V. et al. BJA 2010; 105 (2): 228-232. 2. LMA Supreme™ Instructions for Use. Copyright © 2013 Teleflex Incorporated.

TELEFLEX HEADQUARTER INTERNATIONAL, IRELAND
Teleflex Medical Europe Ltd., IDA Business and Technology Park,
Dublin Road, Athlone, Co Westmeath, Ireland
Phone +353 (0)9 06 46 08 00 Fax +353 (0)14 37 07 73
orders.intl@teleflex.com



Manufactured by:
The Laryngeal Mask Company Limited
Le Rocher, Victoria, Mahé, Seychelles



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www.LMACO.com

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